

35% Design Review
KABUL UNIVERSITY DINING AND LAUNDRY FACILITIES
drawings dated May 28, 2010
WO-A-0044

Response Legend
A- Agree
D- Disagree
O-Out of Scope
AE - Agree with exception

Comment #	Reviewer	Reference	Comment	Response Code	Response	Back-Check
ELECTRICAL COMMENTS-DINING FACILITY BUILDING 28						
E-1	JAS	General	No specifications or design analysis were provided for review	A	Will be updated and submit on 65% design	A
E-2	JAS	General	No calculations were provided for review other than basic voltage drop included on drawings.	D	Load calculations are shown in panel schedules in accordance with NEC 2008. These calcs determine capacity (amps), wire gauge, conduits, & devices being used.	AE Future submissions should include fault current calculations.
E-3	JAS	General	No fire alarm system is provided as required by the International Building Code (IBC) for Group A occupancy.	O	A fire alarm system was not provided because it was not included in the scope of work. If required by client it would be additional services.	A
E-4	JAS	28-E01	In the Legend, what is the difference between F1 and F2, or F3 and F4? Are F2 and F4 intended to be emergency lights?	A	A revision is being carried out as per comments received from VICC. Revised details will be submitted on 65% design	A
E-5	JAS	28-E01	Note 25. Are there motors larger than 1/2 horsepower? If so, then disconnect switches must be rated accordingly.	D	Motors rated 1/2 HP or lower have been specified with magnetic switches for protection & maintenance. Larger motors have been provided with rated disconnect switches.	A
E-6	JAS	28-E01	What does the text below Note 29. refer to? Delete if it is not needed.	A	It has been deleted.	A
E-7	JAS	28-E01	Note 37, second line, the word "spaces" should be "spaced".	A	It has been revised.	A
E-8	JAS	28-E02	Lighting drawing not included in the review set.	A	Lighting drawing /layout will be submitted in 65% design	A
E-9	JAS	28-E03	No circuiting shown for ceiling fans.	D	Circuitry was included in drawings E-02. Other exhaust fans in kitchen area were eliminated by Mechanical. A verification is being conducted by Mechanical.	A
E-10	JAS	28-E03	No circuiting shown for any equipment located in the Boiler Room.	A	This panel is being provided now as a provision for boiler auxiliary equipment. Later, it will be provided under 65% progress set.	A
E-11	JAS	28-E04	The use of conductor ampacity based on 90C insulation rating is only permitted if the equipment terminals that the conductors are connected to are also rated at 90C. If the equipment terminals are only rated at 60 C or 75C, that column in NEC Table 310.16 must be used to determine the conductor ampacity rating.	A	It will be revised accordingly.	A
E-12	JAS	28-E04	Verify that 50mm diameter conduit is adequate for the feeder circuits from the MDP Electrical Panel. 64mm may be required.	A	It is being verified.	A

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E-13	JAS	28-E04	Verify voltage drop calculation for MDP.	A	It is being verified.	A
E-14	JAS	28-E04	In the Electrical Riser, grounding details, add "METALLIC" to the instruction to "ground to cold water pipe". If the cold water pipe is not metallic, it can not be connected to the grounding system.	A	It is being added.	A
E-15	JAS	28-E04	No circuits are shown on panelboard BP.	A	Please see response to comment E-10.	A

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MECHANICAL COMMENTS-DINING FACILITY BUILDING 28						
M-1	CSR	28-G02	Correct title for drawing M02 to "WATER SYSTEM HEATING FLOOR PLAN"	A	This title will be revised. Modifications will be provided for 65% Submittal.	A
M-2	CSR	28-A02	Show boiler room combustion air louver on North and South Elevations.	A	These air louvers will be shown. Modifications will be provided for 65% Submittal.	A
M-3	CSR	28-M01	Louvers and gravity hood ventilate attic space only; provide additional occupant ventilation for Dining Area. Use ASHRAE 62 standard to determine ventilation rates.	A	Additional occupant ventilation for Dining Area will be provided as per ASHRAE 62 standard. Modifications will be provided for 65% Submittal.	A
M-4	CSR	28-M01	Label combustion air louvers at boiler room. Provide emergency burner shut-off switch at door.	AE	Air louvers at boiler room are labeled on sheet M01. Emergency burner shut-off switch at door will be provided. Modifications will be provided for 65% Submittal.	A
M-5	CSR	28-M01	Radiator capacity, as scheduled, provides about 27 btu-hr/sf which may be adequate however it appears that the radiator schedule may be incorrect. Verify that heat output in Kcal/hr column is not really the BTU/hr figure. Correct and adjust length of radiator accordingly if this error has been made. (Note, it seems unlikely that a 9.6" long by 11.8" high hot water radiator could provide 4,298 btu/hr output.)	A	Proposed radiator details will be submitted with 65% submittal for review	A
M-6	CSR	28-M01	In addition to Water Heater System Note 17 on sheet 28-M09, add note on drawing for pipe expansion compensation at least every 24 meters (every 80 feet, or one per wall). Include associated anchors and pipe guides.	A	Note will be provided. Modifications will be provided for 65% Submittal.	A
M-7	CSR	28-M02	In Restrooms 1, 2, and 3, show wall switch for exhaust fan operation. Provide door undercut (Restroom 3 only) or door louver for make-up air to toilet room.	A	All restrooms will be revised in this regard. Modifications will be provided for 65% Submittal.	A
M-8	CSR	28-M02	In Dish Washing room, show wall switch for fan EF-3. Provide door louver for make-up air.	A	Dish Washing room will be revised in this regard. Modifications will be provided for 65% Submittal.	A
M-9	CSR	28-M02	In General Storage and Dry Storage, provide wall switch or other control for EF-4 fans. Indicate if fans run continuously if no switch is provided.	A	These storage rooms will be revised in this regard. Modifications will be provided for 65% Submittal.	A
M-10	CSR	28-M02	For Freezer and Refrigerated area, show location (exterior, location if possible) of remote refrigeration units.	A	These are monoblock type refrigeration units. The exterior part of the system will be represented on the outside wall of these areas as well as the schedule will be incorporated to the drawings. Modifications will be provided for 65% Submittal.	A
M-11	CSR	28-M02	Identify grease hoods and indicate associated ductwork connection sizes and exhaust/supply fans.	O	Kitchen equipments and hoods were not in VICC scope with present contract. A RFI-012 was submitted	A
M-12	CSR	28-M02	Provide occupant ventilation for Chef's Room according to ASHRAE 62 ventilation standards.	A	Occupant ventilation will be provided as per ASHRAE 62 standard. Modifications will be provided for 65% Submittal.	A
M-13	CSR	28-M02	Provide occupant ventilation for Office according to ASHRAE 62 ventilation standards.	A	Occupant ventilation will be provided as per ASHRAE 62 standard. Modifications will be provided for 65% Submittal.	A
M-14	CSR	28-M07	Show kitchen grease hood exhaust fan and supply fan on roof plan.	O	Kitchen equipments and hoods were not in VICC scope with present contract. A RFI-012 was submitted	A
M-15	CSR	28-M08	Provide detail for attic ventilators at roof penetration.	A	Detail will be provided. Modifications will be provided for 65% Submittal.	A

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MECHANICAL COMMENTS-DINING FACILITY BUILDING 28						
M-16	CSR	28-M08, Kitchen Ventilation Note 2 and Fan Schedule at Kitchen Hood	Supply air should be about 80-90% of exhaust rate to maintain negative pressure in kitchen with respect to other spaces; kitchen hood supply fan schedule indicates supply at close to exhaust rate. Additionally, provide a supply fan unit that tempers the make-up air to the space (heating only). Indicate how air is supplied to kitchen; ducted or to combination supply/exhaust grease hood. Consider using transfer air from Dining Area (see item M-2 above) for make-up supply air.	A	Ventilation of kitchen and notes will be revised. Modifications will be provided for 65% Submittal.	A
M-17	CSR	28-M08, Fan Schedule at Kitchen Hood	For Kitchen Hood Exhaust Fan, verify that 3/4" static pressure is sufficient for hood with dirty filter condition.	A	1" static pressure can also be used for kitchen hood exhaust fan design. Schedule will be fixed accordingly. Modifications will be provided for 65% Submittal.	A
M-18	CSR	28-M08	Provide detail for kitchen exhaust fan and supply fan units on roof. Coordinate with Electric Panel Schedule; exhaust and supply fans do not appear to be scheduled.	O	Refer to submitted RFI-12	A
M-19	CSR	28-M08, Required Exhaust Air Schedule	Change "Total CFM provided" from 156 to 155 to match Exhaust Fan Schedule	A	It will be revised. Modifications will be provided for 65% Submittal.	A
M-20	CSR	28-M09	In addition to Water Heater System Note 12, provide detail for radiators showing shut-off valves on HWR and HWR piping. Consider adding a balancing valve at each radiator. Indicate air vent and unions at each radiator.	A	Detail will be provided. Modifications will be provided for 65% Submittal.	A
M-21	CSR	28-M09, Detail 1	Add an air separator in piping before the circulating pumps. Indicate air vent at expansion tank. Consider automatic cold water fill, otherwise indicate how User shall be notified to feed water to boilers. Indicate pipe sizes for near-boiler piping.	A	Detail will be revised. Boiler's manufacturer does not recommend automatic cold water fill but the use of a hydrometer as stated in Note 8. Modifications will be provided for 65% Submittal.	A
M-22	CSR	28-M09, Detail 1	Provide control sequence for boiler, by-pass pump, and circulators. Coordinate with Electric Panel Schedule; boiler and pumps do not appear to be scheduled.	A	Boiler control panel will be represented on detail 1. Electrical loads will be provided for panel Schedule. Modifications will be provided for 65% Submittal.	A
M-23	CSR	28-M09	Provide Pump Schedule and pump piping schematic.	A	It will be provided. Modifications will be provided for 65% Submittal.	A
M-24	CSR	28-M09, Burner Schedule	Provide fuel type. If gas, show gas train and if oil, provide pump rate information, pipe sizes, etc.	A	Fuel type is light oil. Burner schedule will be revised. Modifications will be provided for 65% Submittal.	A
M-25	CSR	26-M09	Verify whether Boiler Room needs heating to prevent freezing of water pipes.	D	It is not mandatory by code. We will insulate the pipe anyway.	A
M-26	CSR	N/A	No calculations, specifications, or design analysis were included therefore no review of these were performed.	A	Will be submitted with 65% design	A

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PLUMBING COMMENTS-DINING FACILITY BUILDING 28						
P-1	DCG	28-P01	Boiler Room, add vent on floor drain	A	Vent will be added. Modifications will be provided for 65% Submittal.	A
P-2	DCG	28-P01	Water Heater Closet, add vent on floor drain	A	Vent will be added. Modifications will be provided for 65% Submittal.	A
P-3	DCG	28-P01	Dining Room, add vents on floor drains	A	Vents will be added. Modifications will be provided for 65% Submittal.	A
P-4	DCG	28-P02	Detail 2, Boiler Rm. add reduced pressure zone backflow preventer on makeup line to boiler	A	Device will be added. Modifications will be provided for 65% Submittal.	A
P-5	DCG	28-P02	Detail 2, Restroom 1, confirm location of water heater and Pressure Expansion Tank (PET). Provide sizing criteria for water heater.	A	Location confirmed. Sizing criteria will be provided. Modifications will be provided for 65% Submittal.	A
P-6	DCG	28-P02	Detail 2, Dishwashing area, offset piping out of walls for clarity.	A	One of the lines will be represented out of the walls for clarity. Modifications will be provided for 65% Submittal.	A
P-7	DCG	28-P02	Detail 2, confirm no dishwasher is included within the room.	A	No dishwasher is included within the room.	A
P-8	DCG	28-P02	Detail 2, Water Heater Closet, offset piping from each other for clarity.	A	Piping will be represented more clearly. Modifications will be provided for 65% Submittal.	A
P-9	DCG	28-P02	Detail 2, Water Heater Closet, confirm piping layout at water heater is correct. Difficult to read.	A	Piping layout is correct. It will be represented more clearly. Modifications will be provided for 65% Submittal.	A
P-10	DCG	28-P02	Detail 2, Water Heater Closet, show water riser coming from below the floor slab.	A	This issue will be revised. Modifications will be provided for 65% Submittal.	A
P-11	DCG	28-P02	Detail 2, Water Heater Closet, Serving Area, provide hot water return line if run from heaters to Kitchen Sink (KS) is over 30,480mm.	D	N/A. The longest run from water heater to the sink located between ranges is under 27,000 mm (included the heights required in the water heater and the sink for piping installation)	A
P-12	DCG	28-P02	Detail 3, Restroom 3, provide water heater sizing criteria. Confirm location of water heater and PET can fit in location as shown.	A	Location confirmed but water heater shall be installed vertically instead of horizontally. The PET can fit between the top of the door and the ceiling. Drawings will be revised accordingly. Sizing criteria will be provided. Modifications will be provided for 65% Submittal.	A
P-13	DCG	28-P02	Detail 3, Restroom 2, provide water heater sizing criteria. Confirm location of water heater and PET can fit in location as shown.	A	Location confirmed. Sizing criteria will be provided. Modifications will be provided for 65% Submittal.	A
P-14	DCG	28-P03	Add vents as identified on 28-P01	A	Drawing will be revised. Modifications will be provided for 65% Submittal.	A

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P-15	DCG	28-P03	For future submittals, show vent piping as dashed line type for clarity.	A	Vent piping will be shown as a non continuous line. Modifications will be provided for 65% Submittal.	A
P-16	DCG	28-P03	Provide provisions for trap seal evaporation (for example, trap primers)	A	They will be provided. Modifications will be provided for 65% Submittal.	A
P-17	DCG	28-P04	Show reduced pressure zone backflow preventer on makeup line to boiler	A	Device will be added. Modifications will be provided for 65% Submittal.	A
P-18	DCG	28-P04	Include temperature and pressure (T and P) relief valves on all water heaters	A	Valves will be added on all water heaters. Modifications will be provided for 65% Submittal.	A
P-19	DCG	28-P04	Show riser pipe from below floor at water service entrance. Include shutoff valve on riser.	A	These issues will be revised. Modifications will be provided for 65% Submittal.	A
P-20	DCG	28-P04	Include hot water return piping and circulation pump to Kitchen Sink (KS)	D	See response to comment P-11	A
P-21	DCG	28-P04	Drawing Coordinates B4, at branch lines to shower and lavatory, provide separate tee fittings off of main. Cross fitting should not be used.	A	Separate tee fittings will be provided. Modifications will be provided for 65% Submittal.	A
P-22	DCG	28-P05	Detail 2, future submissions should include unions on all water heater connections.	A	Unions will be provided. Modifications will be provided for 65% Submittal.	A
P-23	DCG	28-P05	Detail 2, confirm if seismic restraints are required on water heaters.	A	Seismic restraints are required. A note will be added in this regard. Modifications will be provided for 65% Submittal.	A
P-24	DCG	28-P05	Detail 4, delete the term "optional" regarding the sediment bucket	A	The term "optional" will be deleted. Modifications will be provided for 65% Submittal.	A
P-25	DCG	28-P05	Detail 5, show detail of interior type floor cleanout.	A	Detail will be provided. Modifications will be provided for 65% Submittal.	A
P-26	DCG	28-P05	Water Heater Schedule, for future submissions, provide required heater recovery capacity as well as temperature rise for capacity.	A	Information will be provided. Modifications will be provided for 65% Submittal.	A
P-27	DCG	28-P05	Water Heater Schedule, provide detail for wall hung water heater	A	Detail will be provided. Modifications will be provided for 65% Submittal.	A
P-28	DCG	28-P05	General Plumbing Notes 7; for future submissions, include information from Table 704.1 (IPC2006) for contractor reference.	A	Information will be provided. Modifications will be provided for 65% Submittal.	A
P-29	DCG	28-P05	Detail 8, confirm vent piping within wall is a minimum of 150mm above the flood rim of the fixture.	A	Confirmed. Detail will be revised. Modifications will be provided for 65% Submittal.	A
P-30	DCG	All drawings	Confirm that location of piping within walls can fit within the walls.	A	Some walls containing 80mm vent pipes shall be revised. Modifications will be provided for 65% Submittal.	A
P-31	DCG	N/A	No calculations, specifications, or design analysis were included therefore no review of these were performed.	A	Will be provided with 65% design	A

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ARCHITECTURAL COMMENTS-DINING FACILITY BUILDING 28						
A-1	TH	GENERAL	Add a typical legend, general notes, abbreviations, and symbol key.	A	To be included on the 65% submittal.	A
A-2	TH	GENERAL	Add a reflected ceiling plan for coordination purposes. Sheet EO-2 Lighting Floor Plan listed on Index Sheet missing from set.	A	To be included on the 65% submittal.	A
A-3	TH	GENERAL	100% review set to include pre-engineered roof drawings, and kitchen equipment drawings for architectural, structural and MEP coordination.	O	1.Kitchen equipment was not included in the Scope of Work. 2.Roof calculations will be included on the 65% submittal.	A
A-4	TH	A01	Include Code Reference based on 2006 IBC	A	Tables will be modified to show IBC 2006. To be included on 65% submittal.	A
A-5	TH	A01	Boiler room requires a 1 hour separation per Table 508.2 and 45 minute door per Table 715.4 All penetrations to Boiler room to be fire rated.	A	Details to be provided on 65% Submittal.	A
A-6	TH	A01	Sprinklers are required for A-2 assembly buildings over 100 occ. Sec.903.2.1.2 Has a variance been given on this?	O	Sprinkler System has not been included in the Scope of Work	D SOW Task B(1) pg 30 for the Common Dining Facility states: "The new building shall be designed and constructed per IBC 2006"
A-7	TH	A01	Restrooms both appear to be for Men, is this correct?	A	It is correct as the facility is for men only.	A
A-8	TH	A01	Add building section cut 2 showing extent of clerestory, and indicate clerestory above on plan.	D	Please see Sheet A04 (Building Sections)	D Sheet A04 is Finish, Door and Window Schedules
A-9	TH	A01	Indicate floor drains on plan for coordination	AE	Please see sheet P01 for clarification.	A
A-10	TH	A01	Are Walk-In Refrigerator and Freezer recessed into slab or will they require ramps?	A	They are not recessed into slab. Ramp information is not available at this time to be provided on 65% submittal.	A
A-11	TH	A01	Dimension canopy overhangs	A	Dimensions will be modified and included on the 65% submittal.	A
A-12	TH	A01	Door numbers should match room numbers for coordination purposes & ease of installation	D	Door schedule will be longer and not needed (number of doors is stated on door schedule (elevations) - single door numbers is no longer standard method for door schedules	A
A-13	TH	A01	Add elevation tags for all interior elevations.	AE	Please clarify; interior elevations are marked on enlarged restroom plan.	AE Provide Casework Elev IE serving counter, condiments area
A-14	TH	A01	Interior elevations of serving & condiment counter, and any other millwork is needed.	AE	To be provided on the 65% submittal with scope limitation	A
A-15	TH	A01	Add note for Wall Types see Sheet A09	A	To be provided on the 65% submittal.	A
A-16	TH	A02	Dimension column lines, canopies, and radii of pre engineered roofs.	D	Radius is provided on specifications, these can be included in elevation sheet, elevations include grid lines	A
A-17	TH	A02	Show all mechanical/electrical equipment, i.e. louvers exhaust fans, roof vents. Electrical panels are indicated to be outside, show on elevations.	A	To be provided on the 65% submittal.	A
A-18	TH	A02	Roof material for Boiler Room not indicated.	A	To be provided on the 65% submittal.	A
A-19	TH	A02	Indicate Datum Elevation for finish floor line	D	Datum Elevation is indicated on all building elevations.	D Actual height ie "1849.5m=0.0 Grade"
A-20	TH	A02	How will upper windows on East Elevation be opened?	A	Clearstory windows will be fixed and provided on the 65% submittal.	AE Remove arrows indicating operable windows

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A-21	TH	A03	Indicate Radius of metal roofs.	D	Please see comment A-16.	A
A-22	TH	A03	Is Top of Beam the spring point elevation for arc of metal roof?	A	Yes the top of beam is the spring point elevation for arc of metal roof.	A
A-23	TH	A03	Add column lines to sections.	D	Building sections include grid lines	A
A-24	TH	A03	Additional building section is needed for clarity	A	To be provided on the 65% submittal.	A
A-25	TH	A03	Lower roofs structure requires 1 hour rating per Table 601. Will a fire rated ceiling assembly be used?	A	Please see note regarding accoustical ceiling tiles on floor plan and finish schedule	AE Note is in material schedule sheet A04
A-26	TH	A03	Add typical wall section reference	A	To be provided on the 65% submittal.	A
A-27	TH	A03	Indicate ceiling heights	D	The ceiling height is specified on finish schedule.	A
A-28	TH	A04	Door schedule: Suggest listing every door separately with door location, swing, type, size, and etc. Suggest same for the Door Hardware.	D	Door schedule will be longer and not needed (number of doors is stated on door schedule (elevations) - single door numbers is no longer standard method for door schedules	A
A-29	TH	A04	Top of window shown at 5.85 also shown as 5.6 on A02	A	To be included on the 65% submittal.	A
A-30	TH	A06	(8) Wheelchair spaces required in Dining hall per Table 1108.2.2.1	A	Note has been added to floor plan A01 accordingly. To be included on 65% submittal.	A
A-31	TH	AO7	Indicate mounting height of toilet tank	A	A note will be added 1525mm Typical dimension on 65% submittal.	A
A-32	TH	AO7	Indicate size or model number of mirror.	A	A 457x914 Dimensions will be added to Elevation Plan Sheet A08 and to Fixture Schedule Sheet A07. To be provided on 65% submittal.	A
A-33	TH	AO7	Indicate floor drains on plan for coordination,show slope to drain	A	Floor drains and slope to drains will be provided as part of the 65% submittal.	A
A-34	TH	AO7	Unisex Accessible Toilet Room required per 1109.2.1. Has a variance or waiver been issued?	A	A Unisex Accessible Toilet Room will be provided per 1109.2.1	A
A-35	TH	AO8	Indicate how toilet stall partitions are braced:overhead or ceiling.	A	A note will be added to saying: "Toilet stall partitions will be fastened at floor and walls." on 65% submittal.	A
A-36	TH	AO9	Soffit Detail 'K' indicate radius and spring point elevation	A	To be provided on the 65% submittal.	A
A-37	TH	AO9	Soffit Detail 'K' metal soffit to match gutter material would be more durable than painted plywood indicated.	A	Concur; to be reflected on 65% Design	A
A-38	TH	AO9	Will need flashing details of all roof penetrations	A	Concur; to be provided on 65% Design	A